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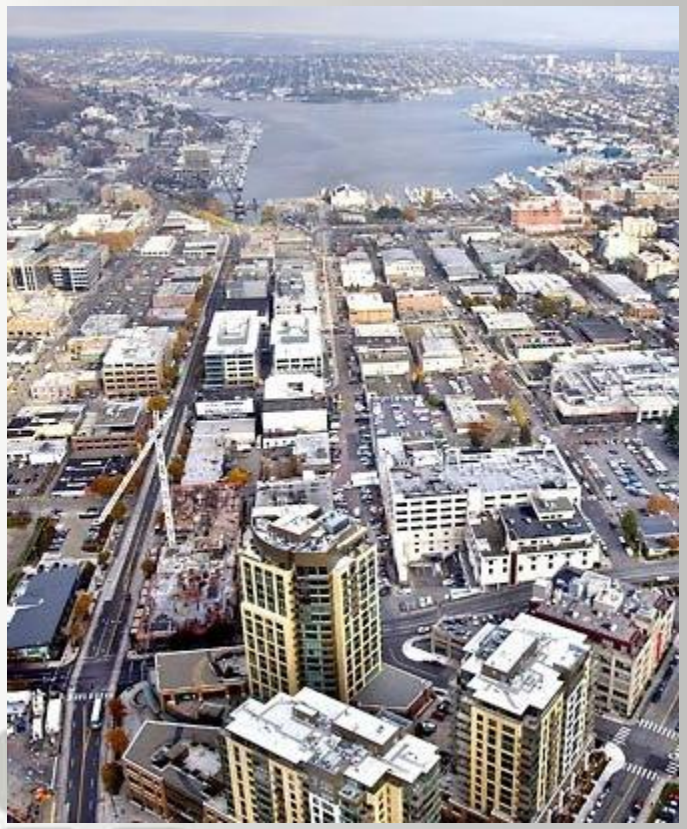
SLU Transportation Analysis



- Challenge from the City
- Traditional transportation analysis focuses too much on traffic improvements
- Develop an alternative approach
  - Works with existing City policies
  - Focuses on other modes
  - Implements plans and urban design framework

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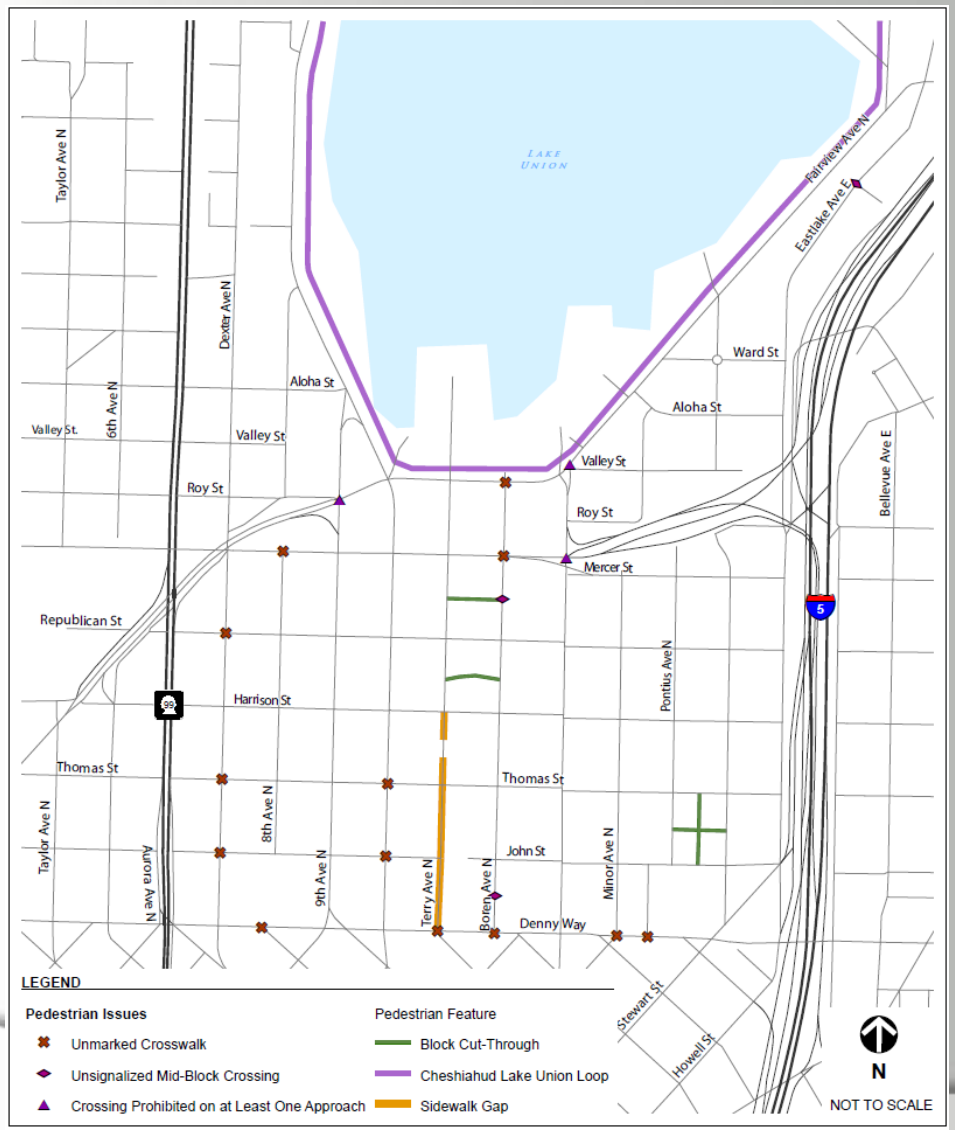
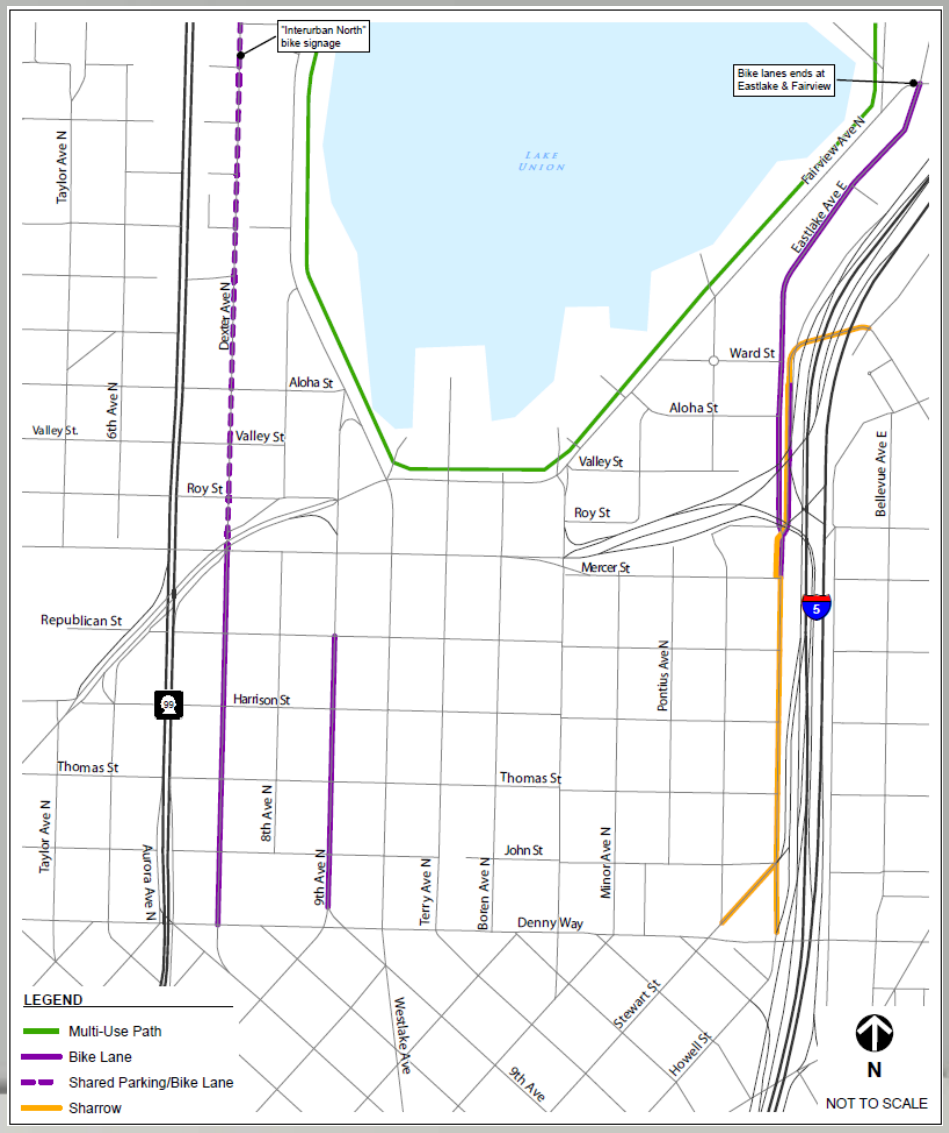
Focus on All Modes





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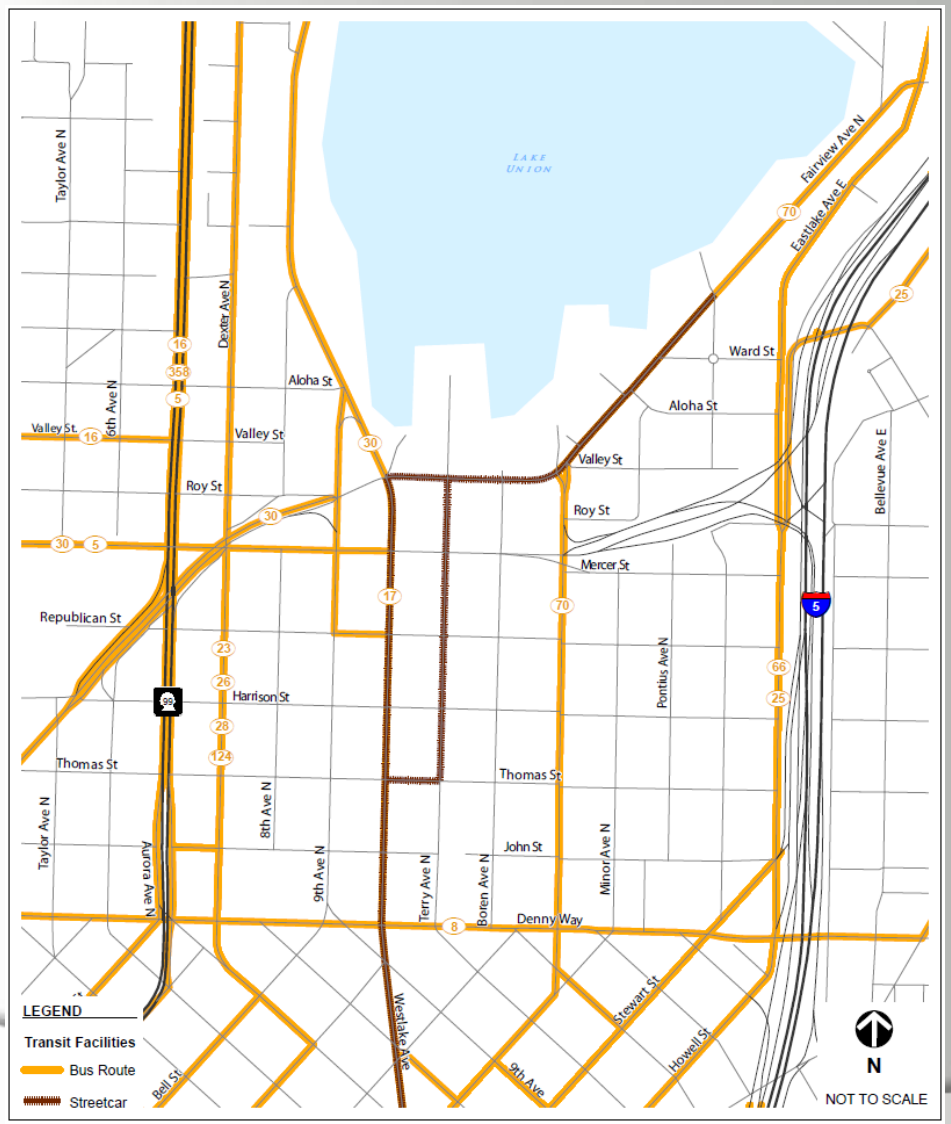
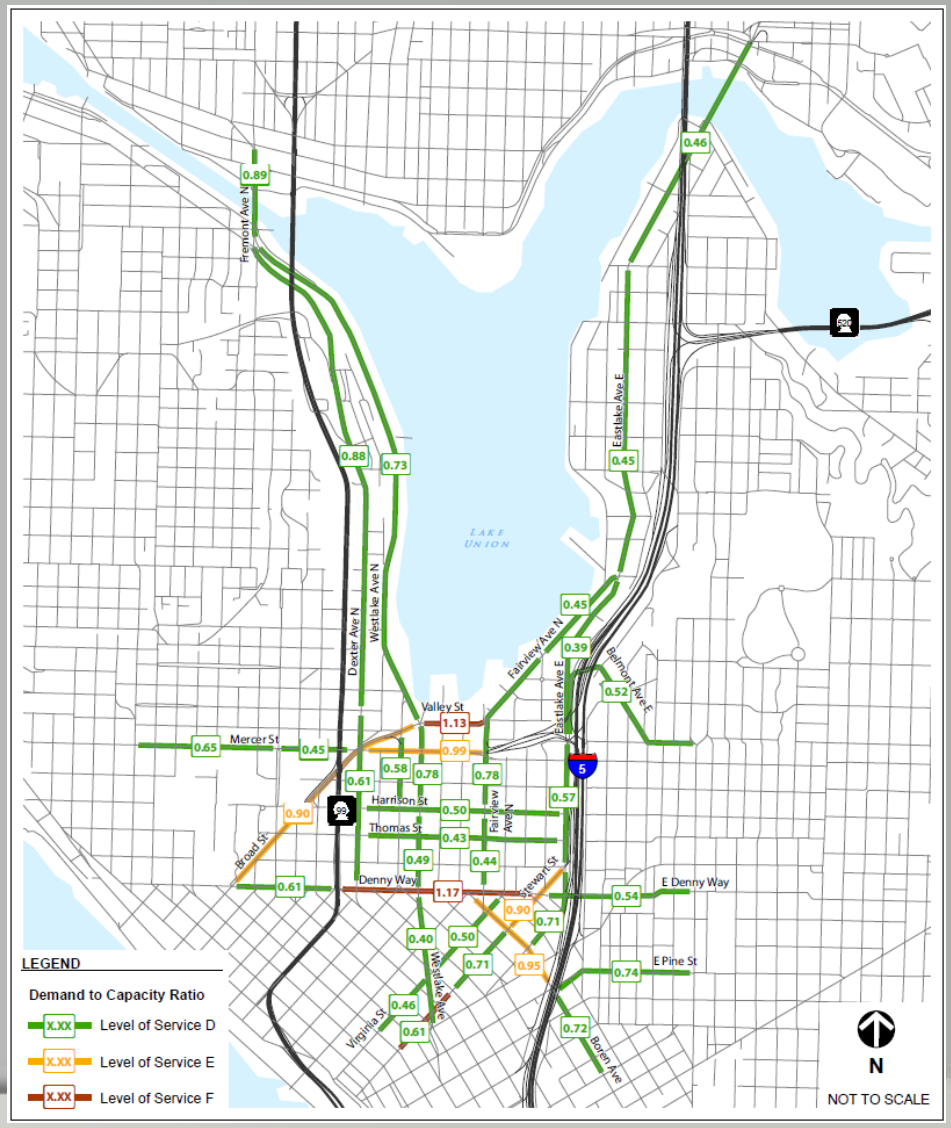
Focus on All Modes





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SLU Impacts and Mitigation

- Unique approach – MXD method
- Based on national studies of mixed use, TOD, and infill development
- Statistical analysis, empirical validation

	Mixed Use Development	Transit Oriented Development	Infill Development
Percent Trip Reduction from Standard Rates	30%	44%	36%

What Does the MXD Method Consider?

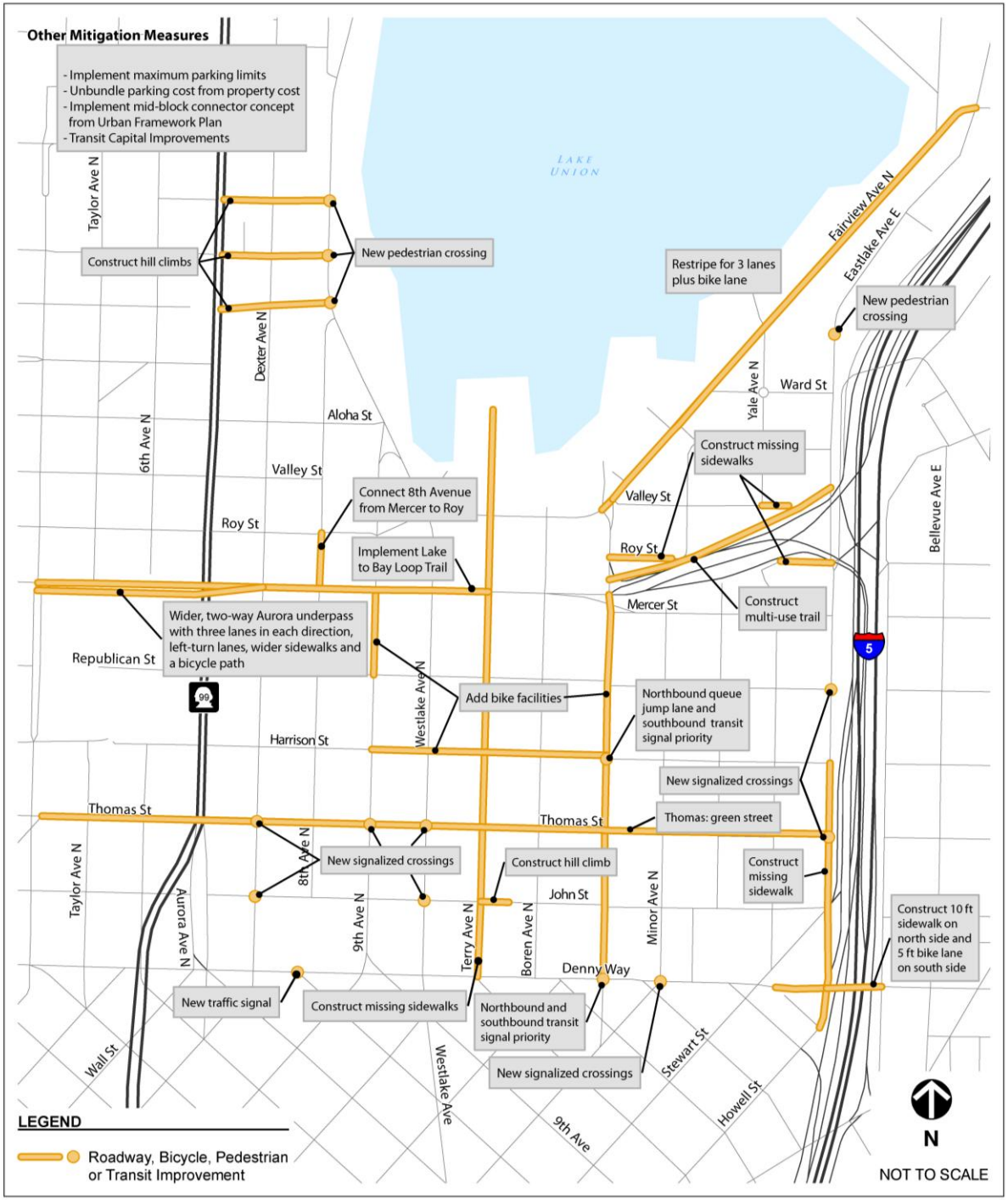
- Density of development
- Diversity of land uses
- Design of pedestrian and bicycle system
- Distance to high quality transit
- Demographic characteristics of residents
- Demand management programs
- Distance to major destinations

Impact Summary

Type of Impact	Future Year Height and Density Alternative (2031)		
	Alternative 1	Alternative 2	Alternative 3
Traffic Operations (congestion)	✓	✓	✓
Transit (capacity)	✓	✓	✓
Pedestrian and Bicycle Circulation	-	-	-
Parking	Short-term Impacts Only		
Freight Mobility	✓	✓	✓
Traffic Safety	✓	✓	✓

Mitigation Strategy

1. Improve the bicycle and pedestrian network
   - Pedestrian Master Plan, Bicycle Master Plan, SLU Urban Design Guidelines
2. Expand travel demand management strategies
   - Parking restrictions, expand GTEC
3. Expand Transit Service
4. Limited Roadway Capacity Expansion
   - Planned projects only – Mercer West


Other Mitigation Measures
- Implement maximum parking limits
- Unbundle parking cost from property cost
- Implement mid-block connector concept from Urban Framework Plan
- Transit Capital Improvements
LAKE UNION
Taylor Ave N
Construct hill climbs
New pedestrian crossing
Dexter Ave N
6th Ave N
Aloha St
Valley St
Roy St
Connect 8th Avenue from Mercer to Roy
Implement Lake to Bay Loop Trail
Republican St
Wider, two-way Aurora underpass with three lanes in each direction, left-turn lanes, wider sidewalks and a bicycle path
99
Harrison St
Westlake Ave N
Add bike facilities
Thomas St
8th Ave N
New signalized crossings
Taylor Ave N
Aurora Ave N
9th Ave N
Terry Ave N
Boren Ave N
Construct hill climb
John St
Minor Ave N
Denny Way
New traffic signal
Construct missing sidewalks
Northbound and southbound transit signal priority
Wall St
Westlake Ave
9th Ave
New signalized crossings
Stewart St
Howell St
Restripe for 3 lanes plus bike lane
Fairview Ave N
Eastlake Ave E
New pedestrian crossing
Yale Ave N
Ward St
Construct missing sidewalks
Valley St
Roy St
Mercer St
Construct multi-use trail
Bellevue Ave E
5
Northbound queue jump lane and southbound transit signal priority
New signalized crossings
Thomas: green street
Thomas St
Construct missing sidewalk
Construct 10 ft sidewalk on north side and 5 ft bike lane on south side
LEGEND
Roadway, Bicycle, Pedestrian or Transit Improvement
N
NOT TO SCALE

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Results – Vehicle Trip Generation